

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-1 THE ORIGINAL PUBLISHED DESCRIPTION OF THE AIR FORCE SBIR SOLICITATION AF99-244

AF99-244

TITLE: Omnidirectional Hemispherical Phased Array Antenna

TECHNOLOGY AREA: Sensors

OBJECTIVE: Develop cost-effective large hemispherical conformal array antenna concepts with methods of analysis and synthesis of arrays for simultaneous multibeam satellite-ground link operations.

DESCRIPTION: Satellites are linked to an earth station by transmitting and receiving a microwave beam through antennas which can be phased arrays. The requirement for a horizon-to-horizon, full hemispherical coverage of this antenna could be implemented with a large (several meters), single hemispherical conformal phased array antenna. It will provide multiple links to simultaneously support several contact operations ranging from low altitude to geostationary satellites at different directions.

This would have the advantages over the conventional multiface planar phased array antenna in improved performance, less number of elements required, wide angle beam steering, efficient scheduling, and resource management. Current applications of this type of conformal array antenna are mostly small cylindrical or dome antennas. The beam is commutated around the arrays by means of a switching network which may become very complex for large antenna applications. Methods of analysis and synthesis of conformal arrays have not been developed to the same extent as the planar array antennas. Recent advancement in active antenna element and digital beam-forming technologies offers opportunities of investigating the possibility of developing cost effective large hemispherical array antennas to provide adaptive multibeam, horizon-to-horizon coverage, and multiple frequency bands for satellite control network operations. It may provide improved capabilities and reduce the overall satellite operations cost. The objective of this research is to develop low-cost hemispherical conformal phased array antenna concepts for horizon-to-horizon, simultaneous coverage of multiple satellites. Methods of analysis and synthesis of hemispherical conformal arrays shall also be formulated. Alternative concepts will be assessed in terms of their effectiveness, feasibility, and practicability.

PHASE I: Phase I activity shall include: (1) identification of general antenna requirements for supporting satellite network operations, (2) development of at least two candidate low-cost hemispherical conformal array antenna concepts supported by analysis and synthesis, (3) assessment of each candidate concept in terms of technical feasibility, application utility, operational adaptability, and economical viability, (4) identification of new technical issues relating to the practicality of specific candidate concepts, and (5) documentation of detailed conceptual designs and assessment results.

PHASE II: The Phase II activity shall include: (1) conduct of trade-off evaluation of the candidate conceptual designs to synthesize a single optimal conceptual design including multibeam control and scheduling, (2) construction of computer simulation and/or breadboard demonstration of selected antenna characteristics to support design analysis, identify key design parameters, and verify the projected capability, (3) using AF Satellite Control Network (AFSCN) as an illustrative example to develop a concept of operation employing the designed hemispherical array antenna, and evaluate the antenna's impact on the overall AFSCN performance, (4) rough estimation of the life cycle cost of the selected antenna concept within the context of APSCN application, and (5) documentation of all technical results and lessons learned from the Phase II activities and additional technology needs.

PHASE III DUAL USE APPLICATION: The antenna concept developed in this research will be applicable to both commercial and military satellite control networks. A low-cost array antenna is capable of improving commercial satellite control network performance and reducing operational cost, especially for the ones with large constellations such as IRIDIUM and Telsdesic.

REFERENCES:

1. Mailloux, R. J., "Phased Array Antenna Handbook," Artech House, 1994.
2. Samejima, S., "Phased Array Antenna Systems for Commercial Applications in Japan," 1966 IEEE International Symposium on Phased Array Systems and Technology, pp. 237-242, October 1996.
3. Kiuchi, E., "Tactical Cylindrical Active Phased Array Radar," 1966 IEEE International Symposium on Phased Array Systems and Technology, pp. 222-225, October 1996.
4. Kanno, M., Hasimura, T. and Katada, T., "Digital Beam Forming for Conformal Active Array Antenna," 1966 IEEE International Symposium on Phased Array Systems and Technology, pp. 37-40, October 1996.
5. Larson, W. J. and Wertz, J. R., "Space Mission Analysis and Design," 2nd Ed., Microcosm, Inc. and Kluwer Academic Publishers, 1993.

KEYWORDS: Digital Beam-Forming, Active Antenna Element, Satellite Control Network, Large Phased Array Antenna, Hemispherical Conformal Array, Horizon-To-Horizon Hemispherical Coverage, Multiple Simultaneous Satellite-Ground Links

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-2 (Page 1 of 4) : A substantially different description of the same Air Force SBIR solicitation AF-99-244 obtained through a Freedom Of Information Act (FOIA) request.



DEPARTMENT OF THE AIR FORCE
11TH WING



8 December 2003

11 CS/SCS (FOIA)
1000 Air Force Pentagon
Washington DC 20330-1000

Dr. Probir K. Bondyopadhyay
14418 Oak Chase Drive
Houston, TX 77062

Dear Dr. Bondyopadhyay

This is to acknowledge receipt of your December 8, 2003, Freedom of Information Act request relating to receiving the Air Force Version of the Air Force Small Business Innovation Research Topic # AF 99-244.

Every effort will be made to respond in twenty business days. If we should need additional time, you will be notified in writing.

Please direct your questions to Yolanda DeCosta at (703) 696-7264 and reference case number #04-0182.

Sincerely

JOHN M. ESPINAL
Freedom of Information Act Manager

WORLD CLASS PEOPLE...WORLD CLASS SUPPORT

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-2 (Page 2 of 4) : A substantially different description of the same Air Force SBIR solicitation AF-99-244 obtained through a Freedom Of Information Act (FOIA) request.



**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESEARCH LABORATORY**

4 February 2004

MEMORANDUM FOR Dr. Probir K. Bondyopadhyay
14418 Oak Chase Drive
Houston TX 77062

FROM AFRL/SNHA (Mr. John Turtle)
80 Scott Drive
Hanscom AFB MA 01731-2909

SUBJECT: Freedom Of Information Act Request – Case #04-001

1. Your Freedom of Information Request was received in this office on 29 January 2004.
2. Your request for release of SBIR Topic No. AF99-244, "Omni-directional Hemispherical Phased Array Antenna" which was executed under contract number F19628-99-C-0073 is approved
3. The above mentioned topic is attached.
4. POC: Sheila C. Belliveau, FOIA Monitor, AFRL/SNH, Comm: 781-377-2059

John P. Turtle
JOHN P. TURTLE
Antenna Technology Branch
Electromagnetics Technology Division

Attachments

1. FOIA Request 8 Dec 03
2. SBIR Topic AF99-244

CC: AFRL/SNOD (Ms Teresa McKinney)

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-2 (Page 3 of 4) : A substantially different description of the same Air Force SBIR solicitation AF-99-244 obtained through a Freedom Of Information Act (FOIA) request.

AF99-244 TITLE: Omnidirectional Hemispherical Phased Array Antenna

CATEGORY: 6.2, Applied Research

KEY TECHNOLOGY AREA: 10, Electronics

OBJECTIVE: Develop passive subarray leading to a cost-effective large hemispherical array antenna for Air Force Satellite Control Network.

DESCRIPTION: Satellites are linked to an earth station by transmitting and receiving a microwave beam through an antenna. The requirement for a horizon-to-horizon, full-hemispherical coverage of this antenna could be implemented with a large (in dimension of several meters), single hemispherical phased array antenna. It can provide multiple links to simultaneously support several control operations ranging from low altitude to geostationary satellites at different directions. This would have the advantages over the conventional multi-facet planar phased array antenna in improved performance with less number of elements required. Array with dual-band, simultaneous transmit and receive, and switchable circularly-polarized capabilities does not exist today. It needs to be developed for application to satellite control operations such as the Air Force Satellite Control Network (AFSCN).

The objective of this research is to develop and demonstrate the technical feasibility of a low-cost passive subarray of radiating elements that will meet the requirements for tracking, telemetry and commanding (TT&C) in satellite control operations. This subarray will be employed to support the implementation of a hemispherical conformal phased array antenna for horizon-to-horizon, simultaneous coverage of multi-satellite tracking and communication. Alternative concepts will be assessed in terms of their effectiveness, feasibility and practicability.

PHASE I: Phase I activity shall include: (1) identify general antenna design requirements for supporting AFSCN operation; (2) determine the parameters of a 64-element flat panel subarray (geometry, lattice, etc.); and (3) design candidate dual-band, simultaneous transmit and receive, circularly-polarized radiating elements. The element feeds must accommodate multi-layer beamforming network for two independent beams with simultaneous transmit and receive mode of operation. Radiating elements will be compared to performance (VSWR, active input impedance, element gain pattern, bandwidth, axial ratio, isolation, XPD, efficiency, etc.) as to cost and complexity. Rank candidates for Phase II fabrication.

PHASE II: Based on the results of Phase I, the contractor will: (1) select two most promising types of radiating elements; (2) perform detail design trade-offs on performance, manufacturability, reliability, cost, adaptability, etc.; (3) employ numerical simulation to predict the performance of the two types of elements in the two dimensional array configuration; (4) down-select to a single candidate and fabricate a passive 8 X 8 subarray; (5) test the subarray and compare the measured with simulated results; and (6) analyze and assess the feasibility and integration of the subarray into a full-size array for AFSCN application.

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-2 (Page 4 of 4) : A substantially different description of the same Air Force SBIR solicitation AF-99-244 obtained through a Freedom Of Information Act (FOIA) request.

(Notice the change in the list of 'Related References'. Compare that against statement made in Exhibit-11. This is a 'smoking gun' evidence of wire fraud against the Office of the Secretary of Defense (OSD) that centrally administers the SBIR Program of the Department of Defense)

DUAL USE COMMERCIALIZATION POTENTIAL: The antenna concept developed in this research will be applicable to both commercial and military satellite control networks. Low-cost array antenna is capable of improving commercial satellite control network performance and reducing maintenance and operational cost.

RELATED REFERENCES:

1. Liu, S. F., Survey of Phased Array Antenna for AFSCN Application, May 1998
2. Tomasic, B., "Analysis and Design Trade-Offs of Candidate Phased Array Architectures for AFSCN Application," Presentation to the Second AFSCN Phased Array Antenna Workshop, Hanscom AFB, 31 March - 1 April 1998.
3. Wu, T. K., "Phased Array Antenna for Tracking and Communication with LEO Satellites," 1996 IEEE International Symposium on Phased Array Technology, Boston, MA., Oct. 1996.
4. Mailloux, R. J., Phased Array Antenna Handbook, Artech House, 1994
5. Larson, W. J. and Wertz, J. R., "Space Mission Analysis and Design," 2nd Ed., Microcosm, Inc. and Kluwer Academic Publishers, 1993.

United States District Court, Southern District of Texas, Houston Division
 Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-3 (Page 1 of 2): The Air Force Contract F19628-99-C-0073 that executed the Solicitation AF99-244

ward Profile : Air Force SBIR/STTR-Web

<http://www.sbirstr.net/afsbir/Awards/A...rofile.asp?ID=30133&Area=Award%20Detail>



Go to:

Proposal #: 99SN-107 **Phase:** I **Program:** SBIR
Proposal Title: Omnidirectional Hemispherical Phased Array Antenna
Org Topic #: 98WAA-012 **AF Sol Topic #:** AF99-244 **AF SBIR Ofc Topic #:**
Solicitation #: 99.1 **Command:** SN **Local ID:** 300511M6
Agency: AF
Topic Title: OMNIDIRECTIONAL HEMISPHERICAL PHASED ARRAY ANTENNA

Award Details

Amount: 99020 **Contract:** F19628-99-C-0073
Buyer: **PK Branch:**
Buyer Phone: **Ext:**
Start: 7/2/99 **End:** 1/5/99
DTIC:
Annual Report FY: 1999 **Enhancement Process:** No
Award Comments:

Technical POC:

Phone: **Ext:** **Fax:**
Email: **Office Symbol:**

Funding Details

FY	Amount	Status	Type	Comments	FY Reptd	Item	AR Change?	Agency
1999	99020	O	S		1999	1	No	AF

TOTALS: Items: 1 Amount: \$99,020

Funding Comments:

Firm Details

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

**EXHIBIT-3 (Page 2 of 2): The Air Force Contract F19628-99-C-0073
that executed the Solicitation AF99-244**

Award Profile : Air Force SBIR/STTR-Web

<http://www.sbirstr.net/afsbir/Awards/A...rofile.asp?ID=30133&Area=Award%20Detail>

Firm:	Alpha Omega Electromagnetics, LLC	Socially & Economically Disadvantaged Business?:	No
Address:	24 Cascade Road	Woman Owned?:	No
City:	Arnold	Multi Wins:	No
State:	Maryland	Employees:	
Zip:	21012-		
URL:			
Proposal Comments:			

Contact Information

Project Manager		Corp Official	
Name:	Robert G. Schmier	Name:	Eric W. Lucas
Title:	President	Title:	Vice President
Phone:	(410) 626-7682 Ext:	Phone:	(410) 750-0190 Ext:
Email:		Email:	

Third Party

No Third Party record(s) available for this award...

Fast Track

No Fast Track record available for this award...

Appendix B

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

**EXHIBIT-4 The TASKS Description of the ORIGINAL Published Version
(LEGAL) of the Air Force SBIR Solicitation AF-99-244.
[from Exhibit-1]**

AF99-244

TITLE: Omnidirectional Hemispherical Phased Array Antenna

PHASE I: Phase I activity shall include: (1) identification of general antenna requirements for supporting satellite network operations, (2) development of at least two candidate low-cost hemispherical conformal array antenna concepts supported by analysis and synthesis, (3) assessment of each candidate concept in terms of technical feasibility, application utility, operational adaptability, and economical viability, (4) identification of new technical issues relating to the practicality of specific candidate concepts, and (5) documentation of detailed conceptual designs and assessment results.

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

**EXHIBIT-5 The TASKS Description of the ILLEGAL Version
of the Air Force SBIR Solicitation AF-99-244.
[from Exhibit-2]**

AF99-244

TITLE: Omnidirectional Hemispherical Phased Array Antenna

TITLE: Omnidirectional Hemispherical Phased Array Antenna

PHASE I: Phase I activity shall include: (1) identify general antenna design requirements for supporting AFSCN operation; (2) determinate the parameters of a 64-element flat panel subarray (geometry, lattice, etc.); and (3) design candidate dual-band, simultaneous transmit and receive, circularly-polarized radiating elements. The element feeds must accommodate multi-layer beamforming network for two independent beams with simultaneous transmit and receive mode of operation. Radiating elements will be compared to performance (VSWR, active input impedance, element gain pattern, bandwidth, axial ratio, isolation, XPD, efficiency, etc.) as to cost and complexity. Rank candidates for Phase II fabrication.

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-6 (Page 1 of 2) Investigation Report of the United States Senator from Texas, Honorable John Cornyn on the legal version of the Air Force SBIR solicitation AF99-244 as provided by the Secretary of the Air Force.

JOHN CORNYN
TEXAS

United States Senate
WASHINGTON, DC 20510-4305

May 16, 2011

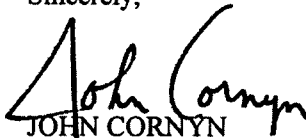
Probir K. Bondyopadhyay, Ph.D.
14418 Oak Chase Drive
Houston, Texas 77062

Dear Dr. Bondyopadhyay:

After reviewing your concerns, the Department of the Air Force provided the enclosed response to my inquiry. I hope you find this information useful. Thank you for giving me the opportunity to assist in this matter.

It is a privilege to represent you in the United States Senate. Thank you again for taking the time to contact me.

Sincerely,


JOHN CORNYN
United States Senator

JC:dcr

Enclosure

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-6 (Page 2 of 2) Investigation Report of the United States Senator from Texas, Honorable John Cornyn on the legal version of the Air Force SBIR solicitation AF99-244 as provided by the Secretary of the Air Force.



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC 20330-1000

OFFICE OF THE SECRETARY

May 10, 2011

SAF/LLP
1160 Air Force Pentagon
Washington, DC 20330-1160

The Honorable John Cornyn
United States Senator
Providence Towers
5001 Spring Valley Road, Suite 1125E
Dallas, TX 75244

Dear Senator Cornyn:

This is in response to your inquiry of April 18, 2011 on behalf of Dr. Probir K. Bondyopadhyay regarding the correct version of Air Force Small Business Innovation Research (SBIR) topic AF99-244.

After reviewing the documentation, Exhibit 1 as submitted by your constituent is the official version of the topic which was published with the Department of Defense (DoD) 1999.1 SBIR Solicitation. This version was used to execute contract F19628-99-C-0073.

Final DoD SBIR Solicitations are available to the public via the DoD SBIR/Small Business Technology Transfer (STTR) website (<http://www.acq.osd.mil/osbp/sbir/solicitations/>). We encourage small businesses to submit proposals to these solicitations giving DoD the opportunity to obtain the best product at the best cost and encourage growth among small businesses.

We appreciate your interest in this matter and trust the information provided is useful.

Very respectfully,

VANESSA J. BOLIN
Deputy Chief, Programs and Legislation Division
Office of Legislative Liaison

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-7 Evidence of Submission of False Information by Assistant U.S. Attorney Samuel G. Longoria (without performing the 'smell test' on the false information deliberately provided by the Defendant (AFRL) to cover up a fraud and obstruct justice).

UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
HOUSTON DIVISION

DR. PROBIR K. BONDYOPADHYAY,)	
)	
Plaintiff)	
)	
v.)	Case No. H-03-3107
)	
U.S. DEPARTMENT OF DEFENSE)	
UNDER SECRETARY OF DEFENSE)	
(ACQUISITION, TECHNOLOGY & LOGISTICS))	
)	
Defendant)	

Factual Summary

The revised version of the
Topic No. AF 99-244 solicitation, referred to by Plaintiff as the "Fannin Version," was published
on the official SBIR website of AFRL/SN in late October 1998.

on this 24th day of October 2003.

Respectfully Submitted,



SAM LONGORIA
Assistant United States Attorney

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

**EXHIBIT-8 Proof regarding submission of FALSE information to and by
Assistant U.S. Attorney Samuel G. Longoria to the U.S. District Judge.**



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 88TH AIR BASE WING (AFMC)
WRIGHT-PATTERSON AIR FORCE BASE OHIO

31 Mar 2004

88 CG/SCCM (FOIA)
Building 676 Area B
2435 5th Street RM 150
Wright-Patterson AFB OH 45433-7802


Dr. Probir K. Bondyopadhyay
14418 Oak Chase Drive
Houston TX 77062

Dear Dr. Bondyopadhyay

This is in response to your 12 March 2004 Freedom of Information Act (FOIA) request for a copy of papers documenting the complete change in the description of the Air Force SBIR solicitation topic no. AF99-244 entitled Omnidirectional Hemispherical Phased Array Antenna. The FOIA control number assigned to your request is 04-229LK.

If you have any questions, please feel free to contact our office. Point of contact for this request is Lynn Kane at (937) 904-8189.

Sincerely


SHEREE M. COON
Freedom of Information Act Manager
Management Services Branch
Base Information Management Division

Attachment:
22 March 2004 Memo from Michele Dickman

03/30/2004 14:54 FAX 9379044719

AFRL/DS.BSMT

AFMC Fm 559, Section II, Remarks

22 Mar 2004

1. Documents requested by Dr. Bondyopadhyay in his 12 Mar 2004 e-mail to Ms. Kane are not, and have never been, in my possession.
2. Dr. Bondyopadhyay's e-mail requests paperwork showing "the authorization process containing signatures of responsible officials from bottom up dealing with this change in the solicitation description." This paperwork has never been in my possession.


MICHELE L. DICKMAN
Det 1 AFRL/BC

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT 9. The front page of the United States Patent (No. 6,292,134) of the Plaintiff, the Inventor, (<http://www.google.com/patents/US6292134>) that the U.S. Air Force is developing continuously for the past twelve years.



US006292134B1

(12) **United States Patent**
Bondyopadhyay

(10) Patent No.: **US 6,292,134 B1**
(45) Date of Patent: **Sep. 18, 2001**

(54) **GEODESIC SPHERE PHASED ARRAY
ANTENNA SYSTEM**

(76) Inventor: **Probir K. Bondyopadhyay**, 14.418
Oak Chase Dr., Houston, TX (US)
77062

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/513,014**

(22) Filed: **Feb. 25, 2000**

Related U.S. Application Data

(60) Provisional application No. 60/121,874, filed on Feb. 26,
1999.

(51) Int. Cl.⁷ **H01Q 3/02; H01Q 3/12**

(52) U.S. Cl. **342/374**

(58) Field of Search **342/368-384**

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,386,953 * 2/1995 Stuart 244/158 R
5,457,465 * 10/1995 Collier et al. 342/374

* cited by examiner

Primary Examiner—Thomas H. Tarcza

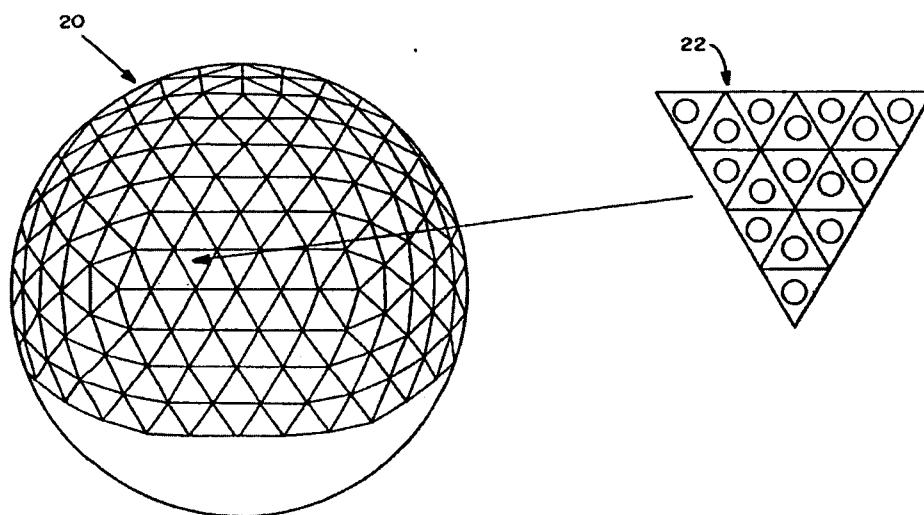
Assistant Examiner—Fred H. Mull

(74) *Attorney, Agent, or Firm*—Marvin J. Mamock

(57) **ABSTRACT**

A geodesic sphere phased array antenna system, capable of scanning the entire omni-directional communication space and comprising substantially equilateral triangular planar subarrays of antenna elements arranged in a geodesic sphere configuration. Icosahedron, one of the five regular solids and truncated icosahedron, one of the fifteen semi-regular solids are the preferred basis of the geodesic sphere phased array construction. The entire communication space is considered as subdivided into a large number of smaller cells and corresponding to each such cellular communication space, a contiguous set of the subarrays is energized and electronically phased to scan the cellular space. Another contiguous set of subarrays is energized and electronically phased to scan another cellular space in a similar manner resulting in limited angle scanning requirements which permit the basic antenna elements to be connected in a cluster as a unit building block to which transmit/receive signal distribution and processing means are connected resulting in lower costs in deployment, operation and maintenance.

30 Claims, 14 Drawing Sheets




United States District Court, Southern District of Texas, Houston Division
 Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-10 Evidence of the recent efforts of the Defendant (AFRL) spending in excess of twelve (12) million dollars to develop this Plaintiff's invention, the Geodesic Sphere (Dome) phased array antenna system for Air force Satellite Control Network (AFSCN).

A--Geodesic Dome Phased Array Antenna (GDPAA) - Federal Business Opportunities: O... Page 1 of 1

Home	Getting Started	General Info	Opportunities	Agencies	Privacy
----------------------	---------------------------------	------------------------------	-------------------------------	--------------------------	-------------------------

Buyers: [Login](#) | [Register](#) Vendors: [Login](#) | [Register](#) [Accessibility](#)



A--Geodesic Dome Phased Array Antenna (GDPAA)

Solicitation Number:
 Agency: Department of the Air Force
 Office: Air Force Materiel Command
 Location: AFRL - Wright Research Site

Notice Details	Packages	Interested Vendors List	Print Link
--------------------------------	--------------------------	---	--

Original Synopsis
 Nov 04, 2006
 12:00 am

[Return To Opportunities List](#)

Notice Type:
Award Notice

Contract Award Date:
November 3, 2006

Contract Award Number:
FA85007C1101

Contract Award Dollar Amount:
12998118

Contractor Awardee:
 BALL AEROSPACE & TECHNOLOGIES CORPORATION, CIVIL SPACE
 SYSTEMS; DEFENSE HARDWARE; COMMERCIAL SPACE 1600
 COMMERCE ST, BOULDER CO 80301-1273

Synopsis:
 Added: November 4, 2006
 No Description Provided

Contracting Office Address:
 USAF/AFMC, DET 1 AF RESEARCH LABORATORY, 2310 EIGHTH STREET,
 BUILDING 187, WRIGHT-PATTERSON AFB OH 45433-7801

Point of Contact(s):
 KATHRYN A DESHANO, Contracting Negotiator, Phone 937-656-9837 x,
 Email Kathryn.DeShano@wpafb.af.mil; DAVID L SHELLABARGER,
 Contracting Officer, Phone (937) 255-4863 x, Email
David.Shellabarger@wpaafb.af.mil

[Return To Opportunities List](#)

GENERAL INFORMATION

Notice Type:
Award Notice

Posted Date:
November 4, 2006

Response Date:
-

Archiving Policy:
Automatic, on specified date

Archive Date:
November 18, 2006

Original Set Aside:
N/A

Set Aside:
N/A

Classification Code:
A -- Research & Development

For Help, Federal Service Desk [Accessibility](#)

mhtml:file://E:\GDPAA_AWARD_NOV_2006.mht

4/29/2012

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-11. 'Smoking Gun' evidence of wire fraud showing that SITIS Operations Coordinator of DTIC was falsely informed that "*References and keywords stay the same*". Exhibit-2 shows otherwise!

This exhibit constitutes incontrovertible evidence that Assistant United States Attorney Samuel G. Longoria submitted false evidence (Exhibit-7) to the U.S. District Judge Vanessa D. Gilmore to obstruct justice.

From: bsmith@dticam.dtic.mil ● Save Address ● Reminder
To: p.bondy@worldnet.att.net
Subject: AF99-244 info.....
Date: Mon, 7 Jun 2004 19:21:13 +0000 [View Source]

Dr. Bondy,

Here is the info SITIS had on AF99 -244: a rewrite and a Q&A set. Hope this helps,

Barry R. Smith
SITIS Operations Coordinator
Defense Technical Information Center
MATRIS Office
NAS North Island, Box 357011
San Diego, CA 92135 -7011
(619) 545-7529 / DSN 735 -7529
=====

October 23, 1998:

AF99-244 has been re-written. References and keywords stay the same, but the objective and description have changed. See below.

AF99-244 TITLE: Omnidirectional Hemispherical Phased Array Antenna
Category: Sensors

Objective: Develop passive subarray leading to a cost -effective large hemispherical array antenna for Air Force Satellite Control Network.

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-12. Evidence showing that ALL administrative remedies have been exhausted without getting the answers. The Department of Defense Inspector General (DoD-IG) Mr. Gordon S. Heddell after taking six (6) months of time did not answer the questions asked as presented in Page- 1 of this Complaint.

From: Hotline, OIG DoD (HOTLINE@DODIG.MIL)
To: DR.BONDY@ATT.NET;
Date: Wed, March 14, 2012 8:42:04 AM
Cc:
Subject: Defense Hotline Case Number 121158

Dear Mr. Bondyopadhyay:

This is in follow-up to your correspondence to the Department of Defense Hotline. We referred your concerns to the appropriate authorities within the Department of Defense for information and any action they deem appropriate. No further action by the Hotline is anticipated at this time.

Thank you for bringing these concerns to our attention.

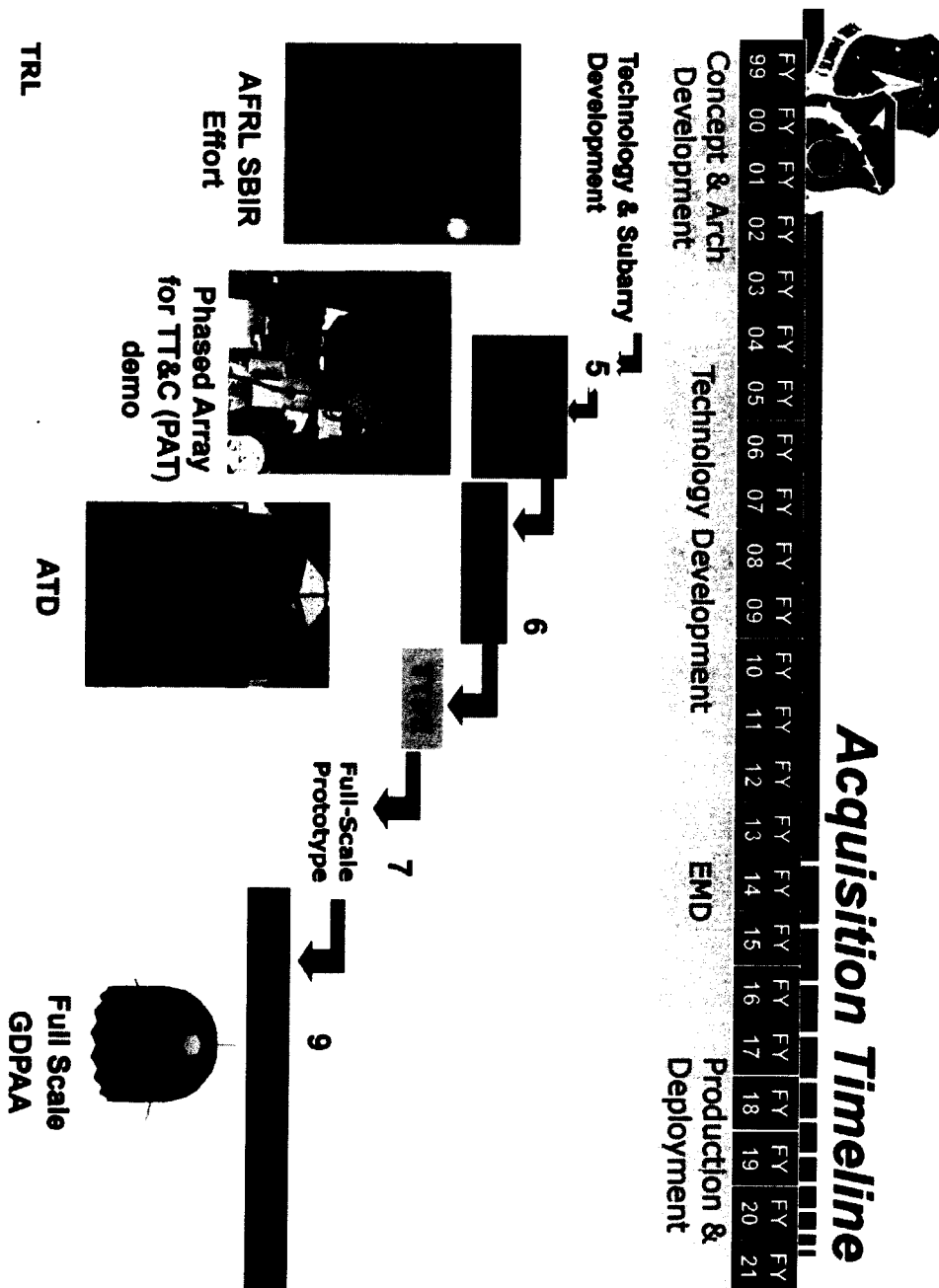
Sincerely,

The Defense Hotline Team

This e-mail is from the Office of the Inspector General, Department of Defense, and may contain information that is "Law Enforcement Sensitive" {LES} or "For Official Use Only" {FOUO} or otherwise subject to the Privacy Act and/or legal and or other privileges that restrict release without appropriate legal authority.

United States District Court, Southern District of Texas, Houston Division
 Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-13 Evidence of the U.S. Air Force developing the Plaintiff's Invention (Exhibit-9): The Geodesic Sphere (Dome) Phased Array Antenna System(U.S. Patent 6,292,134) continuously since Fiscal Year 1999 spending in excess of Twenty Million dollars so far.



United States District Court, Southern District of Texas, Houston Division
 Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-14 (Page 1 of 3) Evidence of the motivation behind the procurement fraud. Air Force SBIR Phase-I contract F30602-98-C-0156 (corresponding to previous year's solicitation No. AF98-112 being performed by Alpha Omega Electromagnetics of Maryland whose continuation in the following year is the basis of the fraud in the present complaint.

Award Profile : Air Force SBIR/STTR-Web

Page 1 of 4

USAF SBIR/STTR Awards

Go to:

Proposal #: 98WAA-250 **DOD Submission #:**

Phase: 1 **Program:** SBIR

Proposal Title: LOW INTERFERENCE CROSS POLARIZATION PHASED ARRAY RADIATING ELEMENTS

Org Topic #: 97RL-023 **AF Sol Topic #:** AF98-112 **AF SBIR Ofc Topic #:**

Solicitation #: 98.1 **Command:** SN **Local ID:** 300511KR

Agency: AF

Topic Title: Low Interference Cross Polarization Phased Array Radiating Elements

Award Details

Status: Completed (No Phase II Requested)

Amount: 97538

Buyer:

Buyer Phone:

Start: 4/22/1998

DTIC Rpt Dt:

Annual Report FY: 1998

Transition Success Story written? No

Award Comments:

Status Explanation:

Contract: F30602-98-C-0156

PK Branch:

Phone Ext:

End: 1/22/1999

DTIC Report #:

DTIC Accession #:

Impact Story Submitted? No

http://www.sbsrtr.net/afsbir/Awards/Awards_profile.asp?ID=28244&Area=Award%20Detail

3/11/2004

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-14 (Page 2 of 3) Evidence of the motivation behind the procurement fraud. Air Force SBIR Phase-I contract F30602-98-C-0156 (corresponding to previous year's solicitation No. AF98-112 being performed by Alpha Omega Electromagnetics of Maryland whose continuation in the following year is the basis of the fraud in the present complaint.

Award Profile : Air Force SBIR/STTR-Web

Technical POC: Boris Tomasic
Phone: Ext:
Email: Fax:
Office Symbol:

FY	Amount	Status	Type	Comments	FY Reptd	Item	AR Change?	Agency
1998	97538	O	S		1998	1	No	AF
TOTALS: Items: 1 Amount: \$97,538								

Funding Comments:

Firm Details

Firm: ALPHA OMEGA ELECTROMAGNETICS
Address: 24 CADCADE ROAD
City: ARNOLD
State: Maryland
Zip: 21012-
URL:

Socially & Economically Disadvantaged Business?: No
Woman Owned?: No
Multi W/ins: No
Veteran Owned: No
Disabled Veteran Owned: No
Employees: 2

Proposal Comments:

Contact Information

Project Manager
Name: ROBERT G SCHMIER
Title: PRESIDENT
Phone: (410) 626-7052 **Ext:**
Email:

Corp Official
Name: ERIC W LUCAS
Title: SECRETARY
Phone: (410) 750-0190 **Ext:**
Email:

Third Party
 No Third Party record(s) available for this award...

Fast Track

http://www.sbsitr.net/atSbir/Awards/Awards_profile.asp?ID=28244&Area=Award%20Detail

Page 2 of 4

3/1/2004

United States District Court, Southern District of Texas, Houston Division
 Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-14 (Page 3 of 3) Evidence of the motivation behind the procurement fraud. Air Force SBIR Phase-I contract F30602-98-C-0156 (corresponding to previous year's solicitation No. AF98-112 being performed by Alpha Omega Electromagnetics of Maryland whose continuation in the following year is the basis of the fraud in the present complaint.

Award Profile : Air Force SBIR/STTR-Web

No Fast Track record available for this award...

Page 3 of 4

Appendix B

Abstract:

Phased arrays are becoming increasingly desired in communication applications because of their high performance capability and relative ease of installation into mobile platforms. However, present-day phased arrays cannot maintain pure polarization characteristics over a large scan column. This polarization degradation with scan leads to cross-polarization interference in operating in an array environment. Alpha Omega Electromagnetics (AOE) will conduct a systematic and rigorous EM-simulation based investigation of array effects (including the use of WAITs) on the polarization of radiating elements. This information will then be applied to the design of AOE's proposed dual-polarized high-cross-polarization discrimination (XPD) radiating element candidates. AOE will employ proprietary finite element and moment method electromagnetic simulation software to accurately predict the element's scanning and polarization performance. This state-of-the-art software has been extensively validated and has led to numerous advanced technology radar aperture designs over the past decade. In Phase I, AOE will evaluate the viability of its proposed radiating element configurations as solutions to the high XPD wide-scanning radiating element problem. From this investigation, AOE will produce a fundamental and credible design which will be demonstrated by hardware in Phase II of the effort.

Benefits:

Keywords:

Topic Details

PEO:

DAC:

PEO/DAC Org:

Sponsor POC:

Name:

Phone:

Ext:

Fax:

Email:

Office Symbol:

Topic Author:

Name:

Dr. Boris Tomasic

Phone:

(617) 377-2055 Ext:

Fax:

Email:

sbir@rl.af.mil

Office Symbol:

http://www.sbirstr.net/sbir/Awards/Awards_profile.asp?ID=28244&Area=Award%20Detail

3/11/2004

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-15 Written Admission by Robert Schmier of Alpha Omega Electromagnetics, Maryland that TASK-1, TASK-2 and TASK-3 of the original solicitation (Exhibit-1) as shown in Exhibit-4 were NOT performed by the said contractor under F19628-99-C-0073 (Exhibit-3), thus confirming HONEST SERVICES FRAUD.

- From: Bob Schmier ~



● Member Services

HOME

MY AT&T

E-MAIL

FEATURES

SEARCH TOOLS

SHOP

HELP

Get E-mail |

Message List |

Compose |

Folders |

Address Book |

Mailboxes |

Options | Help |

MESSAGE
CENTER

Read Message

Logged in as: p.bondy

Mailbox: p.bondy on AT&T Worldnet

Message: 8 of 133

Current Folder: INBOX



From: "Bob Schmier" <alpha.omega@erols.com> [[Save address](#)]

To: <p.bondy@att.net>

Subject: RE: Your Phone Call

Date: Tue, 6 May 2003 09:16:38 -0400

Attached are some excerpts from my proposals to show what we actually did under the two SBIR efforts in question. The spherical array work was done by the Air Force. We only focused at a very low level on radiating elements and corporate stripline feeds at the subarray level. I actually know very little about the details of the spherical array and am not really interested in it.

* * * * *

This should be apparent in our proposals

* * * * *

-----Original Message-----

From: p.bondy@att.net [mailto:p.bondy@att.net]

Sent: Monday, May 05, 2003 10:02 PM

To: alpha.omega@erols.com

Cc: p.bondy@worldnet.att.net

Subject: Your Phone Call

Mr. Schmier,

Apparently my recording tape ran out near the end of your message. Sorry for the inconvenience.

My E-mail address is this one:

p.bondy@worldnet.att.net

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-16 FURTHER written Admission by Robert Schmier of Alpha Omega Electromagnetics, Maryland that TASK-1, TASK-2 and TASK-3 of the original solicitation (Exhibit-1) as shown in Exhibit-4 were NOT performed by the said contractor under F19628-99-C-0073 (Exhibit-3), thus confirming HONEST SERVICES FRAUD.

To: Dr. Probir K. Bondyopadhyay
From: Robert Schmier
Subject: AOE efforts on Air Force SBIR efforts
Date: 5/6/03

Dear Dr. Bondy:
I have enclosed some excerpts from proposals that were executed by AOE for the Air Force.

* * * * *

As you will note from the excerpts AOE has not actually performed any hemispherical array work, but has acted as a component supplier to the people at Hanscom for their hemispherical array efforts.

* * * * *

AF99-244

* * * * *

AOE's efforts under AF99-244 had nothing to do with developments related to hemispherical arrays, but rather the development of radiating elements. AOE did nothing related to hemispherical arrays but review the work shown in the references.

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-17 'Smoking Gun' evidence of fraudulent claim (exposed by Michele L. Dickman) that deliberate erroneous communication in late October 1998 to Mr. Barry R. Smith of DTIC (Exhibit-11) *constituted 'official approval'* of the revised version (Exhibit-2) of AF99-244 by the DoD (Department of Defense).


03/30/2004 14:54 FAX 9379044719

AFRL/DS.BSMT

AFMC Fm 559, Section II, Remarks

22 Mar 2004

the change to Topic AF 99-244 was approved by
DoD, and published on the SBIR Interactive Topic Information System (SITIS) on
27 Oct 1998


MICHELE L. DICKMAN
Det 1 AFRL/BC

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

EXHIBIT-18 The OFFICIAL Time Line of the Solicitation AF99-244.

PROGRAM SOLICITATION

Number 99.1

**Small Business
Innovation
Research Program**

**U.S. Department of Defense
SBIR Program Office
Washington, DC 20301**

October 1, 1998: Solicitation issued for public release

December 1, 1998: DoD begins accepting proposals

January 13, 1999: Deadline for receipt of proposals at the DoD
Components by 2:00 p.m. local time

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

Respectfully Submitted to:
THE U.S. DISTRICT COURT
SOUTHERN DISTRICT OF TEXAS
HOUSTON DIVISION


Pro Se.

1st June 2012

DR. PROBIR KUMAR BONDYOPADHYAY (BONDY)
UNITED STATES CITIZEN
INVENTOR,
GEODESIC SPHERE PHASED ARRAY ANTENNA SYSTEM
[<http://www.google.com/patents/US6292134>]
14418 OAK CHASE DRIVE, HOUSTON, TEXAS 77062-2038
TEL: 281-486-7735 (H)
832-758-6514 (M)
EMAIL: dr.bondy@gmail.com
PLAINTIFF
PRO SE

DATE: 1st June 2012

United States District Court, Southern District of Texas, Houston Division
Dr. Probir K. Bondyopadhyay vs. Commander, U. S. Air Force Research Laboratory, WPAFB

CERTIFICATE OF SERVICE

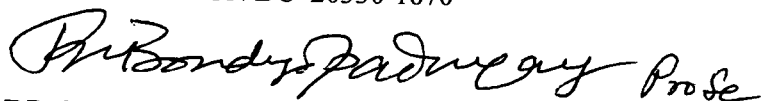
Copies of this original Complaint are submitted to: (1).the United States Attorney through the U.S. Marshall's Office at the Federal Court Building and to : (2) the Defendants as detailed below:

(1). The United States Attorney, Honorable Kenneth Magidson
Southern District of Texas, Houston Division
(through the U.S. Marshall's Office in the Federal Court Building).
1000 Louisiana, Suite 2300,
Houston, Texas 77002

(2). By Express Mail to

The Commander, U.S. Air Force Research Laboratory (AFRL)
MAJOR GENERAL WILLIAM N. MCCASLAND
Wright Patterson Air Force Base, Ohio 45433.

(3). U.S. SECRETARY OF THE AIR FORCE
HONORABLE MICHAEL B. DONLEY
1670 AIR FORCE PENTAGON
WASHINGTON DC 20330-1670


DR. PROBIR KUMAR BONDYOPADHYAY (BONDY)
UNITED STATES CITIZEN

1st June 2012

INVENTOR,
GEODESIC SPHERE PHASED ARRAY ANTENNA SYSTEM
[<http://www.google.com/patents/US6292134>]
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PLAINTIFF

PRO SE

DATE: 1st June 2012